

Typical Stages in the Life of a Time-Temperature Indicator (TTI)

1. Stage 1: TTI as applied to the ration



2. Stage 2: Inner circle darkened slightly



3. Stage 3: Inner circle as dark as outer ring



4. Stage 4: Inner circle darker than outer ring



The darkening of the inner circle is dependent on the time and temperatures of storage. The rate of darkening or the temperature sensitivity can be selected to reflect an appropriate end point. For this demonstration, the inner circle of the TTI should be as dark as the outer reference ring after storage equivalent to three years at 80F.